IOT Weekly Assignment-1

SMART HOUSE

#include <Servo.h>

int DistSense = 0;

Servo servo\_6;

long readUltrasonicDistance(int triggerPin, int echoPin)

{

pinMode(triggerPin, OUTPUT); // Clear the trigger

digitalWrite(triggerPin, LOW);

delayMicroseconds(2);

// Sets the trigger pin to HIGH state for 10 microseconds

digitalWrite(triggerPin, HIGH);

delayMicroseconds(10);

digitalWrite(triggerPin, LOW);

pinMode(echoPin, INPUT);

// Reads the echo pin, and returns the sound wave travel time in microseconds

return pulseIn(echoPin, HIGH);

}

void setup()

{

servo\_6.attach(6, 500, 2500);

pinMode(8, OUTPUT);

}void loop()

{

servo\_6.write(0);

DistSense = 0.01723 \* readUltrasonicDistance(7, 7);

if (DistSense < 75) {

servo\_6.write(90);

digitalWrite(8, HIGH);

delay(2000); // Wait for 2000 millisecond(s)

servo\_6.write(0);

digitalWrite(8, LOW);

}

}

